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青海棘豆属新分类群*

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NEW TAXA OF THE GENUS *OXYTROPIS* FROM QINGHAI, CHINA

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Key words *Oxytropis*; *O. guinanensis* Y.H.Wu; *O. zekogensis* Y.H.Wu
关键词 棘豆属；贵南棘豆；泽库棘豆

1 贵南棘豆 新种 图1

Oxytropis guinanensis Y.H.Wu, sp. nov.

Species nova affinis *O. stracheyanae* Bunge, sed foliolis 4～7-jugis, 5～16 mm longis, bracteis 5～7 mm longis, calycibus 12～14 mm longis, vexillis c. 24 mm longis, 12 mm latis, limbo ovato, supra medium constricto, apice truncato, alis c. 20 mm longis differt.

Perennis, c. 11 cm alta, basi stipulis et petiolis dense persistibus. Radix palar is glandacea. Caulis nullus. Folia 3～10 cm longa; petioli 2～5 cm longi, cum rhachidibus supra sulcati, adpresse albo-pubescenti; stipulae membranaceae, supra medium inter se connatae et petiolo adnatae, c. 10 mm longae, dense albo-pilosae, parte soluta triangulata; foliola 4～7-juga, angusto-elliptica, 5～16 mm longa, 1.5～3.5 mm lata, apice acuta vel obtusa, basi rotundata vel cuneata, utrinque pilis adpresse dense vestita. Racemus 3～4-florus; pedunculus 6～8 cm longus, erectus, dense albo-pilosus; bractea oblonga vel ovato-lanceolata, 5～7 mm longa, 1～2 mm lata, pilis dense vestita; pedicellus c. 3 mm longus; calyx tubuloso-campanulatus, 12～14 mm longus, 4～5 mm latus, dense patule albo-pilosus et nigro-pubescens, dentibus subulatis, 3～4 mm longis, utrinque pilis dense vestitis; corolla purpurea; vexillum c. 24 mm longum, 12 mm latum, limbo ovato, supra medium constricto, apice truncato, ungue c. 10 mm longo; alae c. 20 mm longae, limbo oblique obovato, c. 7 mm lato, ungue c. 10 mm longo, auriculis incurvis c. 2.5 mm longis; carinae c. 18 mm longae, mucrone c. 3 mm longo; ovarium pilis vestitum, legumen ignotum.

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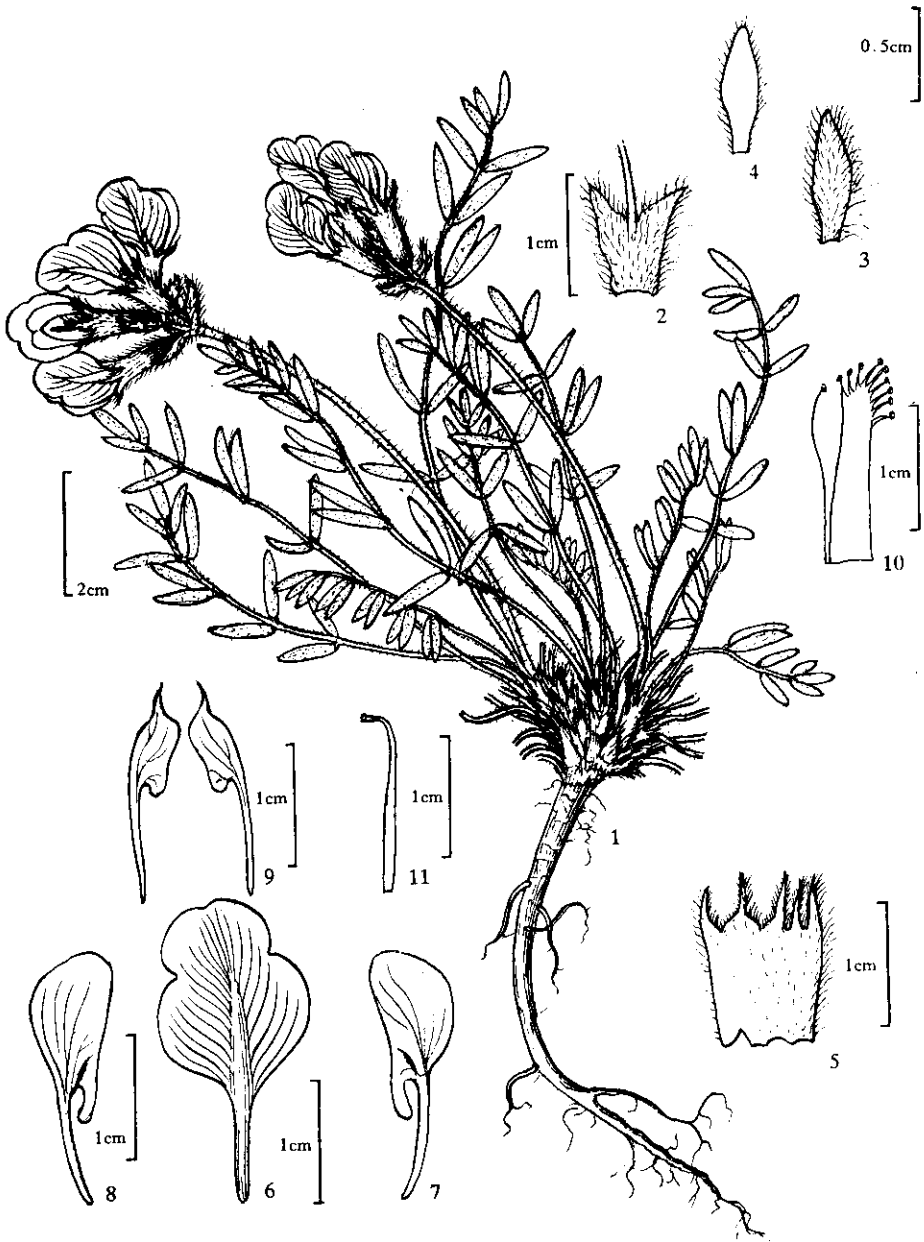

图 1　贵南棘豆　1.植株；2.托叶；3.苞片背面；4.苞片腹面；5.花萼展开；6.旗瓣；7～8.翼瓣；9.龙骨瓣；10.雄蕊；11.子房。(闫翠兰绘)

Fig.1　*Oxytropis guinanensis* Y. H. Wu　1.plant; 2.stipule; 3.dorsal view of bract; 4.ventral view of bract; 5.calyx; 6.standard; 7～8.wings; 9.keel; 10.stamen; 11.ovary.

Qinghai(青海):Guinan(贵南), Mugetan(木格滩), alt. 3200 m, ad deserticolas, 1967-07-23, B.W. Li(李秉文) et H.Z. Zhang(张盍曾) 039 (typus, HNWP).

多年生草本，高约 11 cm，基部密被残存的叶柄和托叶，主根黄棕色，无茎。羽状复叶

长 3～10 cm,叶柄长 2～5 cm,连同叶轴上面均有沟并被贴伏的白色短柔毛;托叶膜质,中上部合生并与叶柄贴生,长约 10 mm,密被白色长柔毛,分离部分三角形;小叶 9～15 枚,狭椭圆形,长 5～16 mm,宽 1.5～3.5 mm,先端急尖或钝,基部圆形或楔形,两面密被白色贴伏柔毛。总状花序生 3～4 朵花;总花梗长 6～8 cm,直立,密被白色长柔毛;苞片长圆形,或卵状披针形,长 5～7 mm,宽 1～2 mm,密被毛;小花梗长约 3 mm;花萼筒状钟形,长 12～14 mm,宽 4～5 mm,密被开展的白色长柔毛和黑色短柔毛,萼齿钻状,长 3～4 mm,两面密被毛;花冠紫红色;旗瓣长约 24 mm,宽约 12 mm,瓣片卵形,中部以上缢缩,先端截形,爪长 10 mm;翼瓣长约 20 mm,瓣片斜倒卵形,宽约 7 mm,爪长约 10 mm,耳内弯,长约 2.5 mm;龙骨瓣长约 18 mm,喙长约 3 mm;子房被毛。荚果未见。

本种与胀果棘豆 *O. stracheyana* Bunge 相似,但小叶 9～15 枚,长 5～16 mm,苞片长 5～7 mm,花萼长 12～14 mm,旗瓣长约 24 mm,宽 12 mm,瓣片卵形,中部以上缢缩,先端截形,翼瓣长约 20 mm,可以区别。

2 泽库棘豆 新种 图 2

Oxytropis zekogensis Y. H. Wu, sp. nov.

Species nova affinis *O. taochensi* Kom., sed foliolis 6～10-jugis, ovatis, pedunculis 8～15 cm longis, bracteis ovato-lanceolatis, 3～6 mm longis, vexillis non nisi 10 mm longis, limbo rotundato-ovato, alis non nisi 9 mm longis, limbis angusto-obovatis, ovario lineari, glabro, leguminibus ovatis vel oblongis, 10～14 mm longis differt.

Perennis 20～40 cm alta. Caulis erecto-patens, sulcatus, interdum ostendens cupreus, parce patule albo-pubescens. Folia 4～8 cm longa, suprema sessilia, inferna petiolata, petiolis 2～20 mm longis, cum rhachidibus supra sulcata, parce patule albo-pubescentia; stipulae herbaceae, solutae, basi 1/3 inter se connatae, ovato-lanceolatae vel lanceolatae, 5～7 mm longae, pilis sparse vestitae; foliola 6～10-juga, ovata, 3～10 mm longa, 2～6 mm lata, apice acuta, basi rotundata, utrinque pilis albis adpresse vestita. Racemus densus, 5～12 florus; pedunculus 8～15 cm longus, erectus, parce albo-pubescens sub inflorescentia dense pubescens et immixtus fuliginosus; bractea ovato-lanceolata, 3～6 mm longa, pilis sparse vestita; calyx campanulatus, c. 6 mm longus, c. 3 mm latus, dense fuliginoso- et albo-pubescens, dentibus subulatis, 2 mm longis, utrinque pilis vestitis; corolla violacea; vexillum 10 mm longum, limbo rotundato-ovato c. 6 mm lato, apice emarginatum, ungue 3 mm longo; alae 9 mm longae, limbo angusto-obovato, 3 mm lato, apice oblique retusae, auriculis 1.5 mm longis, unguibus 4 mm longis carinae c. 8 mm longae, apice mucrone c. 1 mm longo, unguibus 4 mm longis; ovarium lineare, glabrum, ovula 6. Legumen ovatum vel oblongum, turgidum, 10～14 mm longum, 5～6 mm latum, dense semi-patenti-albo- et brunneo-pubescens, Semina brunnea, oblique reniformia c. 2 mm longa.

Qinghai(青海): Zekog (泽库), Hor (和日), alt. 3400, in pratis alpinis. 1970-09-12, S. W. Liu(刘尚武) 1829(typus, HNWP); Datong(大通), Baoku(宝库), alt. 2750 m, 1989-09-23, H. C. Zhang(张鸿昌)840.

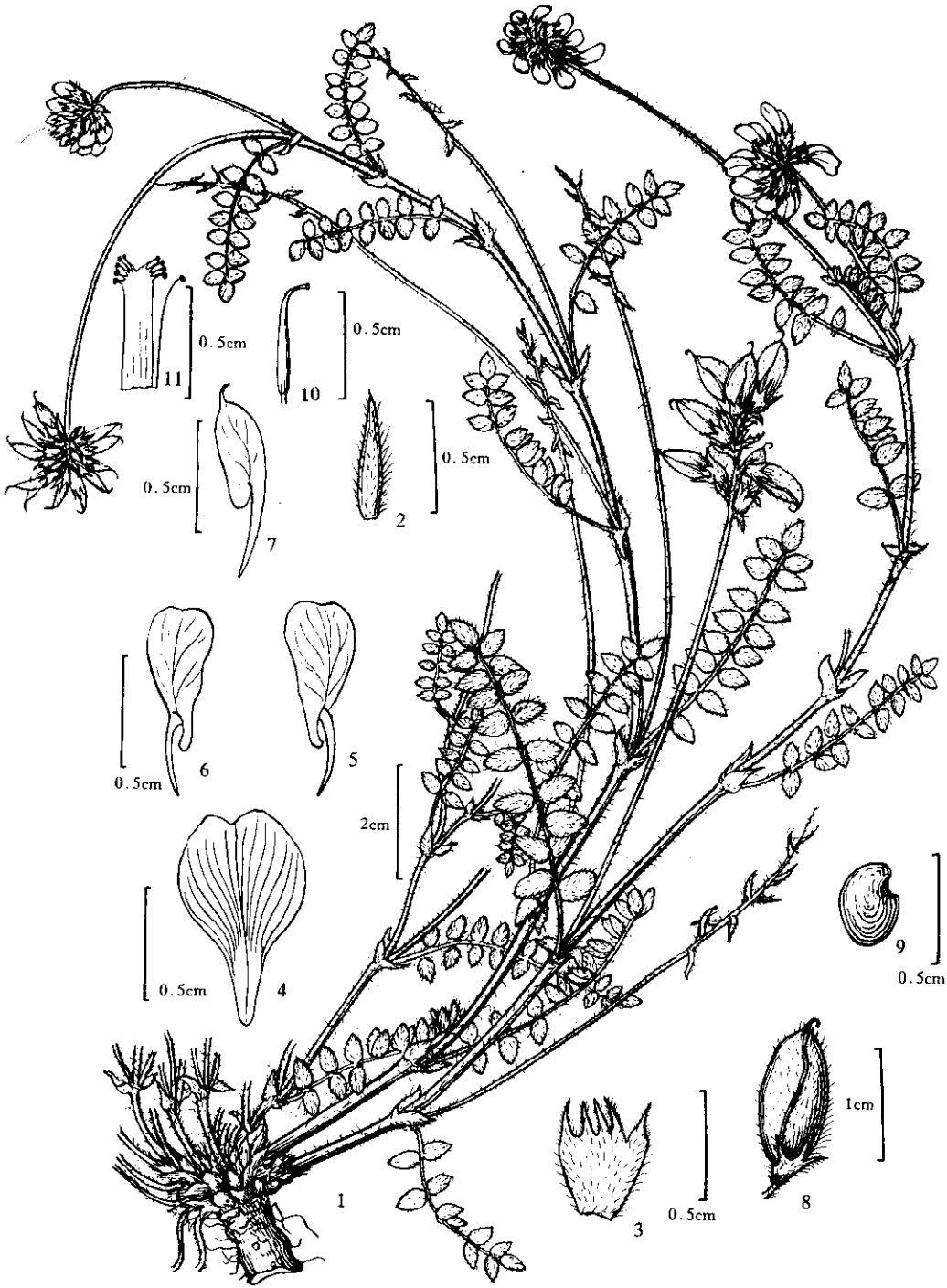

图 2　泽库棘豆　1.部分植株；2.苞片；3.花萼；4.旗瓣；5～6.翼瓣；7.龙骨瓣；8.荚果；9.种子；10.子房；11.雄蕊。(闫翠兰绘)

Fig. 2　*Oxytropis zekogensis* Y. H. Wu　1. part of plant; 2. bract; 3. calyx; 4. standard; 5～6. wings; 7. keel; 8. legume; 9. seed; 10. ovary; 11. stamen.

多年生草本,高20～40 cm,茎斜升,具棱,带紫色,疏被白色开展短柔毛。羽状复叶长4～8 cm,上部的叶无叶柄,下部的叶柄长2～20 mm,连同叶轴上面均有沟,疏被白色开展的短柔毛;托叶草质,离生,近基部1/3处合生,卵状披针形或披针形,长5～7 mm,疏被毛;小叶13～21枚,卵形,长3～10 mm,宽2～6 mm,先端急尖,基部圆形,两面贴伏白色柔毛。总状花序密生5～12朵花;总花梗长8～15 cm,直立,疏被白色短柔毛,近花序下部混生较密的黑褐色短柔毛;苞片卵状披针形,长3～6 mm,疏被毛;花萼钟状,长约6 mm,宽约3 mm,密被黑褐色和白色短柔毛,萼齿钻状,长约2 mm,两面被毛;花冠蓝紫色;旗瓣长10 mm,瓣片卵圆形,宽约6 mm,先端微凹,爪长约3 mm;翼瓣长9 mm,瓣片狭倒卵形,宽约3 mm,先端斜微凹,耳长1.5 mm,爪长4 mm;龙骨瓣长8 mm,喙长1 mm,爪长4 mm;子房线形,无毛,胚珠6。荚果卵形或长圆形,膨胀,长10～14 mm,宽5～6 mm,密被半开展的白色和褐色短柔毛。种子褐色,歪肾形,长约2 mm。花果期7～9月。

本种同洮河棘豆 *O. taochensis* Kom. 相似,但小叶13～21枚,卵形,总花梗长8～15 cm,苞片卵状披针形,长3～6 mm,旗瓣长仅10 mm,瓣片圆卵形,翼瓣长仅9 mm,瓣片狭倒卵形,子房线形,无毛,荚果卵形或长圆形,长仅10～14 mm,可以区别。

3 长宽苞棘豆 新变种

Oxytropis latibracteata Jurtz. var. **longibracteata** Y. H. Wu, var. nov.

A var. *latibractaeta* recedit foliolis longe ellipticis, usque 29 mm longis, bracteis 14～18 mm longis, usque 6 mm latis, calycibus c. 15 mm longis, dentibus 5 mm longis, vexillis usque 27 mm longis.

Qinghai(青海):Gonghe(共和), alt. 3500～3700 m prope fruticem, 1975-08-08, P. C. Kuo(郭本兆) 11894 (typus, HNWP); 11885.

本变种与原变种的区别在于:小叶椭圆形,长可达29 mm,苞片长达14～18 mm,长于萼,宽可达6 mm,花萼长达15 mm,萼齿长达5 mm,旗瓣长可达27 mm。